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Purified Mouse anti-Human IgE Monoclonal Antibody

CLX167AP

Lot:

Size: 0.1 mg

Clone: 4H10

Isotype: Mouse IgG1

Specificity: The antibody 4H10 reacts with human IgE; it recognizes an epitope different from the ones recognized by BE5 and 4G7 antibodies to IgE.

Immunogen: Purified human IgE.

Species Reactivity: Human

Preparation: Purified from ascites by precipitation methods and ion exchange chromatography.

Concentration: 1.0 mg/ml

Storage Buffer: Tris buffered saline (TBS) with 15 mM sodium azide, approx. pH 8.0

Storage / Stability: Store at 2-8°C. Do not freeze. Do not use after expiration date stamped on vial label.

Background: Immunoglobulin E (IgE) is a 180 kDa soluble protein serving as an antigen-specific unit of mast cell effector mechanisms. IgE has the lowest serum concentration of all immunoglobulins (approximately 0.5 mg/l) in healthy individuals, but upon allergen challenge its concentration in blood increases dramatically. Although biological survival of free IgE is very short (T_{1/2} = 2 days), it is stabilized after binding to its high affinity receptor. Unlike IgM- IgG- and IgA-committed B cells, IgE-switched B cells do not undergo clonal expansion.

Continued...

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